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## SEQUENCE LISTING

<110> Carreno, Beatriz M.  
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 Hinton, Paul  
 Tsurushita, Naoya

<120> ANTIBODIES AGAINST CTLA4 AND USES THEREFOR

<130> GNN-009CP

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<150> 60/178,473

<151> 2000-01-27

<160> 10

<170> PatentIn Ver. 2.0

<210> 1

<211> 672

<212> DNA

<213> Homo sapiens

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<210> 2

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<213> Homo sapiens

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Val Phe Cys Lys Ala Met His Val Ala Gln Pro Ala Val Val Leu Ala  
35 40 45

Ser Ser Arg Gly Ile Ala Ser Phe Val Cys Glu Tyr Ala Ser Pro Gly  
50 55 60

Lys Ala Thr Glu Val Arg Val Thr Val Leu Arg Gln Ala Asp Ser Gln  
65 70 75 80

Val Thr Glu Val Cys Ala Ala Thr Tyr Met Met Gly Asn Glu Leu Thr  
85 90 95

Phe Leu Asp Asp Ser Ile Cys Thr Gly Thr Ser Ser Gly Asn Gln Val  
100 105 110

Asn Leu Thr Ile Gln Gly Leu Arg Ala Met Asp Thr Gly Leu Tyr Ile  
115 120 125

Cys Lys Val Glu Leu Met Tyr Pro Pro Pro Tyr Tyr Leu Gly Ile Gly  
130 135 140

Asn Gly Ala Gln Ile Tyr Val Ile Asp Pro Glu Pro Cys Pro Asp Ser  
145 150 155 160

Asp Phe Leu Leu Trp Ile Leu Ala Ala Val Ser Ser Gly Leu Phe Phe  
165 170 175

Tyr Ser Phe Leu Leu Thr Ala Val Ser Leu Ser Lys Met Leu Lys Lys  
180 185 190

Arg Ser Pro Leu Thr Thr Gly Val Tyr Val Lys Met Pro Pro Thr Glu  
195 200 205

Pro Glu Cys Glu Lys Gln Phe Gln Pro Tyr Phe Ile Pro Ile Asn  
210 215 220

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&lt;211&gt; 426

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 3

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tcctca 426

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 <213> Mus musculus

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                   20                  25                  30  
 Pro Ser Gln Ser Leu Ser Ile Thr Cys Thr Val Ser Gly Phe Ser Leu  
                   35                  40                  45  
 Thr Ser Tyr Gly Val Tyr Trp Val Arg Gln Pro Pro Gly Lys Gly Leu  
           50                  55                  60  
 Glu Trp Leu Gly Val Ile Trp Ala Gly Gly Thr Thr Asn Tyr Asn Ser  
           65                  70                  75                  80  
 Ala Leu Met Ser Arg Leu Ser Ile Ser Lys Asp Asn Ser Lys Ser Gln  
                   85                  90                  95  
 Val Phe Leu Lys Met Ser Ser Leu Gln Thr Asp Asp Thr Ala Met Tyr  
                   100                  105                  110  
 Tyr Cys Ala Arg Gly Pro Pro His Ala Met Met Lys Arg Gly Tyr Ala  
           115                  120                  125  
 Met Asp Tyr Trp Gly Gln Gly Thr Ser Val Ile Val Ser Ser  
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 <212> PRT  
 <213> Mus musculus

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<400> 6  
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                   20                  25                  30  
 Met Pro Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Ser Ala Thr  
                   35                  40                  45  
 Ser Ser Ile Thr Tyr Met Ser Trp Tyr Gln Gln Lys Ser Gly Ser Ser  
           50                  55                  60  
 Pro Arg Leu Leu Ile Tyr Asp Thr Ser Asn Leu Ala Ser Gly Val Pro  
           65                  70                  75                  80  
 Val Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile  
                   85                  90                  95  
 Ser Arg Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp  
                   100                  105                  110  
 Ser Ser Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu Lys  
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 <211> 413  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Humanized mouse

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 ggggacaggg tcaccataac ctgtagtgcc acctcaagta taacttacat gtcctgtatc 180  
 agcagaagcc aggaaaggct cccaagcttc tgatttatga cacatccaac ctggctctgg 240  
 ggtacctagc cgcttcagtg gcagtggtgc tgggaccgac tacacactca caatagcagc 300  
 ctgcagccag aagattttgc cacttattac tgccagcagt ggagtagtta cccctcacgt 360  
 tcggtggagg gaccaagggt gagataaaac gtaagtagaa tccaaagtct aga 413

<210> 8  
 <211> 128  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Humanized mouse

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           1                  5                  10                  15

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35				40				45							
Thr	Ser	Tyr	Gly	Val	Tyr	Trp	Val	Arg	Gln	Pro	Pro	Gly	Lys	Gly	Leu
50						55				60					
Glu	Trp	Leu	Gly	Val	Ile	Trp	Ala	Gly	Gly	Thr	Thr	Asn	Tyr	Asn	Ser
65				70						75		80			
Ala	Leu	Met	Ser	Arg	Leu	Thr	Ile	Ser	Lys	Asp	Thr	Ser	Lys	Asn	Gln
				85				90						95	
Val	Ser	Leu	Lys	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala	Val	Tyr
		100						105				110			
Tyr	Cys	Ala	Arg	Gly	Pro	Pro	His	Ala	Met	Met	Lys	Arg	Gly	Tyr	Ala
		115				120						125			
Met	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser		
130						135				140					

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